

ABSTRACT

A brake system to electrically operate a brake includes a stepping force sensor, a brake arm and a feeling-of-stepping-force generation mechanism which is disposed between the stepping force sensor and the brake arm. The brake arm holds a brake pedal. The feeling-of-stepping-force generation mechanism is rotatably connected with each of the stepping force sensor and the brake arm so as to generate a stepping force that changes nonlinearly with respect to a stroke of the brake arm. In response to a tension which is applied via the feeling-of-stepping-force generation mechanism by the travel of brake, the stepping force sensor detects a stepping force, thereby generating output to control the electrically operated brake.